

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P480500

Luminaire Tested: **IFLD-S-SA3E-740-U-SL3**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480500
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-740-U-SL3
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL3 distribution lens
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

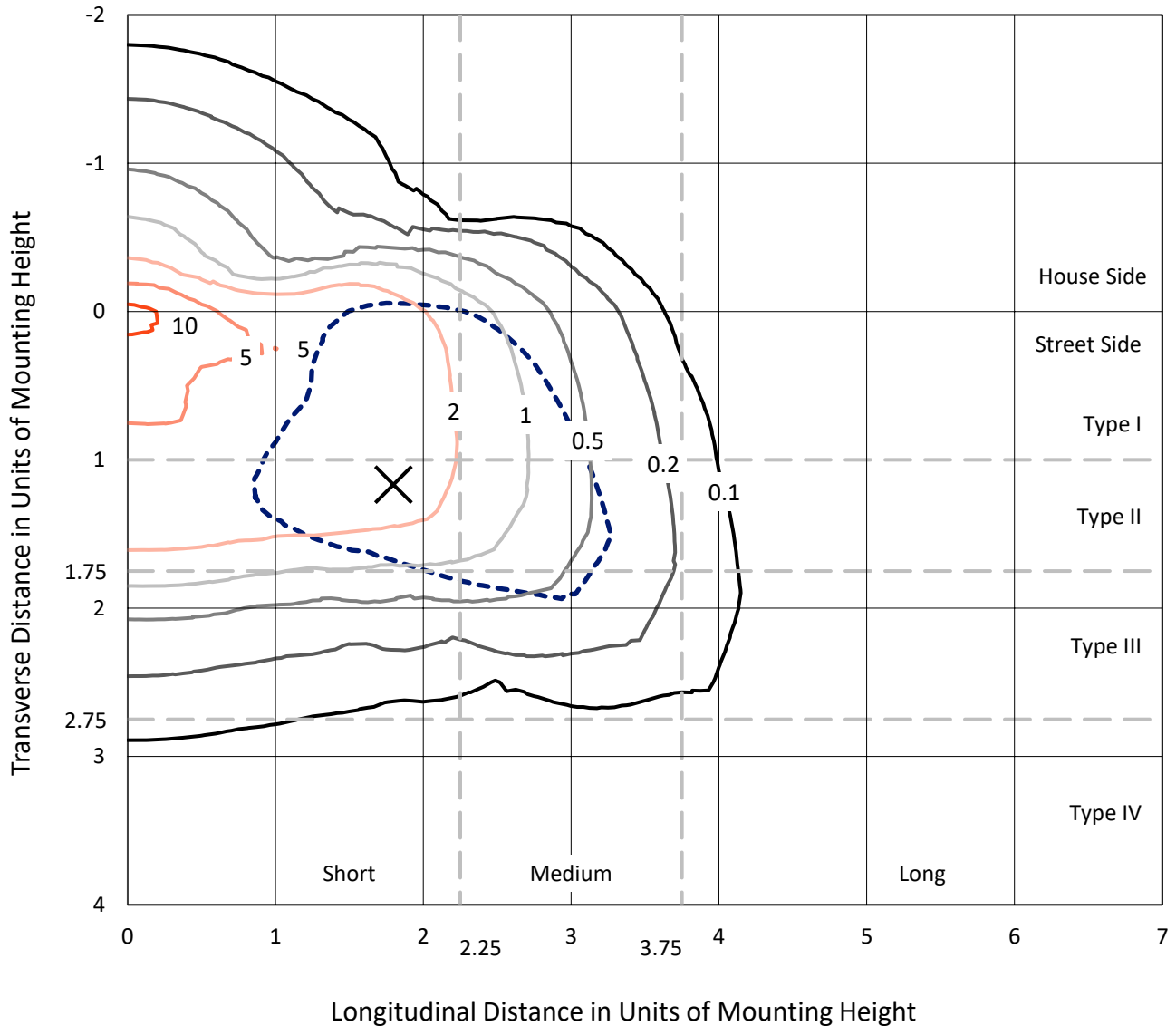
Lumens per Lamp: N/A
Luminaire Lumens: 26615.3 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

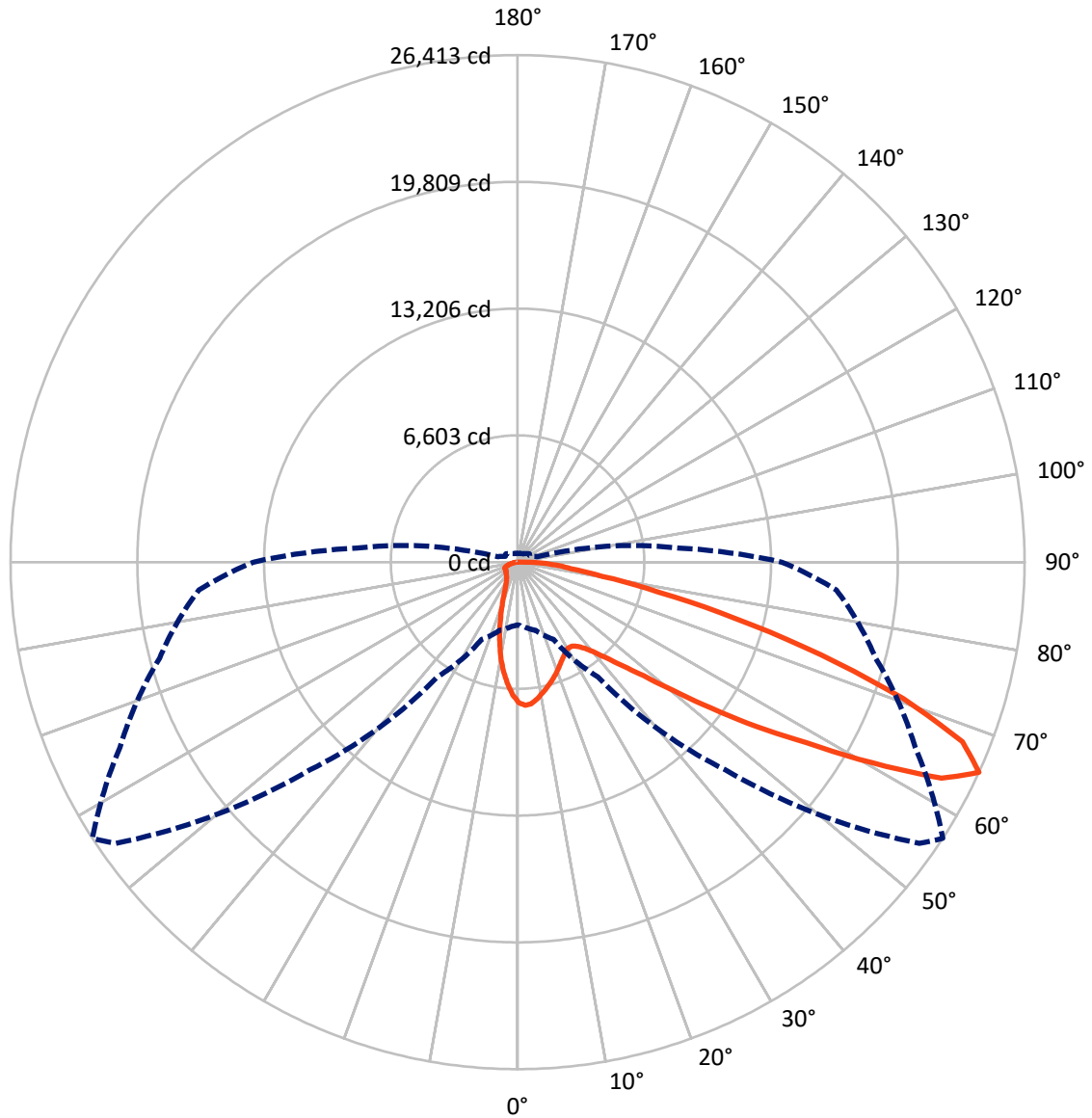
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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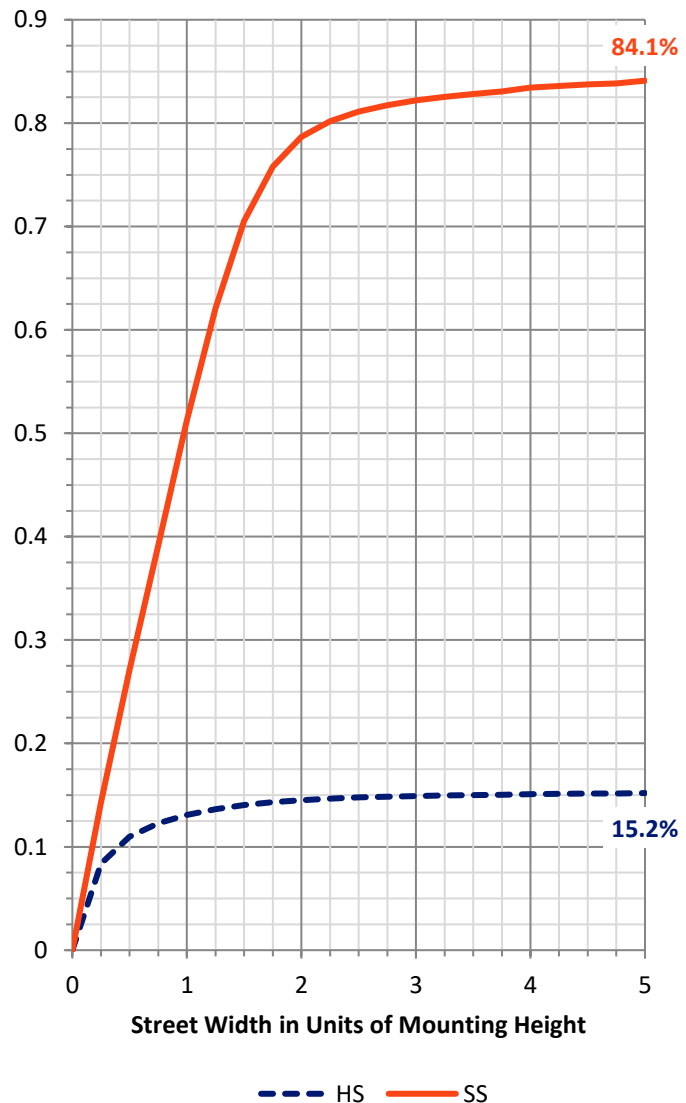
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4081.7	0.0	4081.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	22533.6	0.0	22533.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	26615.3	0.0	26615.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.9	2.3
10°-20°	1319.1	5.0
20°-30°	1705.4	6.4
30°-40°	2294.9	8.6
40°-50°	3659.4	13.7
50°-60°	6463.3	24.3
60°-70°	7110.5	26.7
70°-80°	2974.5	11.2
80°-90°	475.4	1.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	26615.3	100.0
0°-180°	26615.3	100.0

Coefficient of Utilization



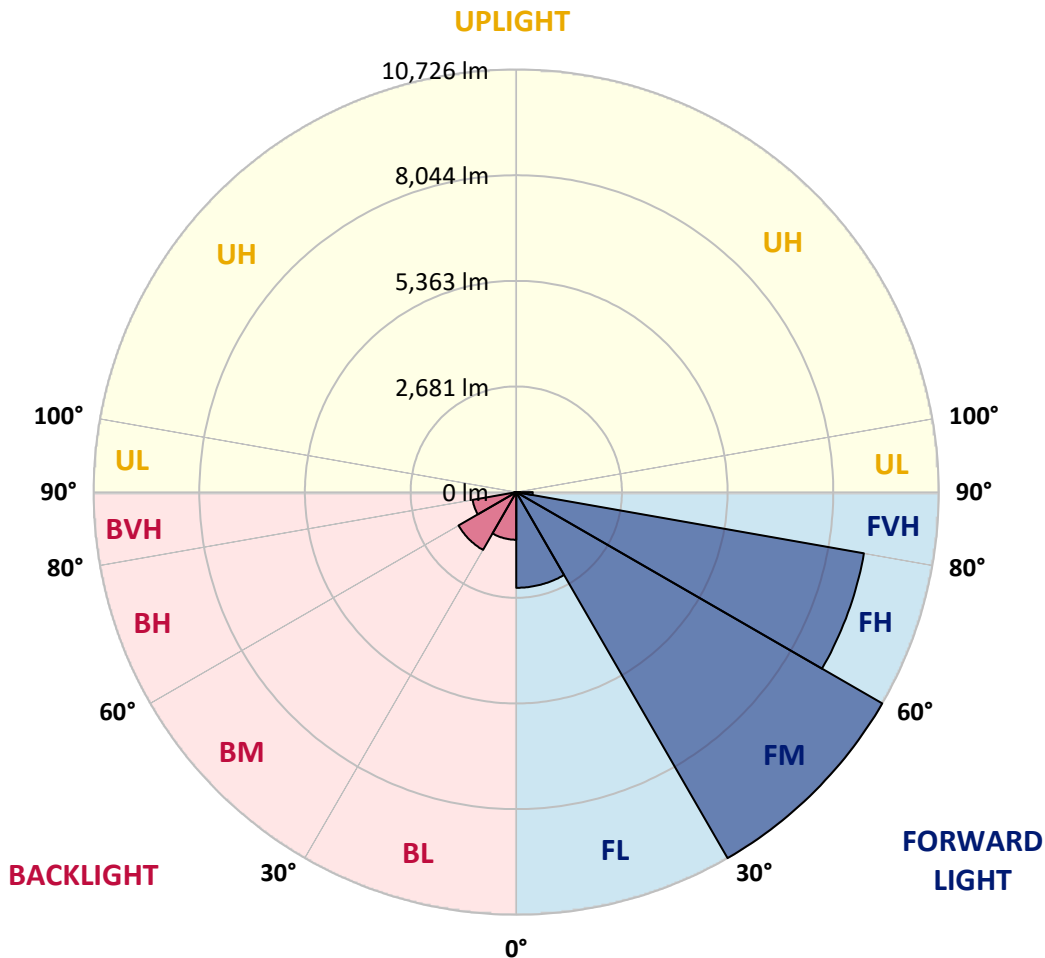
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2428.5	9.1			
FM (30°-60°)	10725.9	40.3			
FH (60°-80°)	8959.5	33.7			G4/12000
FVH (80°-90°)	419.6	1.6			G3/500
BL (0°-30°)	1208.8	4.5	B3/2500		
BM (30°-60°)	1691.7	6.4	B2/2500		
BH (60°-80°)	1125.5	4.2	B3/2500		G3/2500
BVH (80°-90°)	55.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8
2.5°	7516.5	7528.5	7528.5	7552.4	7471.6	7510.5	7504.5	7468.6	7480.5	7417.7	7354.8
5°	7303.9	7294.9	7342.8	7348.8	7411.7	7429.6	7444.6	7420.6	7426.6	7288.9	7229.0
7.5°	6758.8	6755.8	6836.7	6905.6	7037.3	7160.1	7241.0	7217.0	7250.0	7163.1	7022.4
10°	6112.0	6180.9	6264.7	6333.6	6576.2	6731.9	6941.5	6962.5	7088.2	7067.3	6812.7
12.5°	5626.9	5656.8	5719.7	5917.4	6139.0	6396.5	6696.0	6722.9	6845.7	6905.6	6684.0
15°	5228.6	5255.5	5336.4	5483.1	5731.7	6037.1	6417.5	6486.3	6731.9	6752.8	6516.3
17.5°	4938.1	4959.1	5013.0	5159.7	5363.3	5755.6	6115.0	6237.8	6561.2	6663.0	6342.6
20°	4824.3	4779.4	4809.3	4902.2	5105.8	5408.3	5872.4	5980.2	6393.5	6594.1	6177.9
22.5°	4773.4	4734.5	4752.4	4746.5	4908.2	5123.8	5611.9	5725.7	6234.8	6513.3	6031.1
25°	4812.3	4812.3	4794.4	4779.4	4797.4	4938.1	5330.4	5507.1	6022.2	6444.4	5881.4
27.5°	5022.0	4941.1	4950.1	4887.2	4869.2	4869.2	5204.6	5309.4	5953.3	6405.5	5758.6
30°	5156.7	5195.7	5198.6	5105.8	5013.0	4845.3	5087.8	5189.7	5896.4	6453.4	5686.8
32.5°	5501.1	5483.1	5432.2	5414.3	5276.5	5087.8	5144.7	5213.6	5863.4	6561.2	5707.7
35°	5845.5	5836.5	5839.5	5830.5	5686.8	5408.3	5297.5	5390.3	5923.3	6749.9	5779.6
37.5°	6201.8	6225.8	6327.6	6327.6	6174.9	5872.4	5725.7	5698.7	6141.9	7058.3	5950.3
40°	6558.2	6618.1	6746.9	6950.5	6734.9	6453.4	6216.8	6174.9	6405.5	7471.6	6360.6
42.5°	6899.6	6998.4	7252.9	7555.4	7483.5	7202.0	6887.6	6839.7	6947.5	8085.5	6932.5
45°	7336.8	7420.6	7821.9	8286.1	8384.9	8136.4	7768.0	7729.1	7723.1	8983.8	7720.1
47.5°	8001.6	8091.4	8492.7	8959.9	9265.3	9304.3	8891.0	8849.1	8705.3	10196.7	8873.0
50°	8834.1	8980.8	9319.2	9864.2	10307.5	10723.7	10606.9	10484.1	10202.6	11607.1	10334.4
52.5°	9442.0	9621.7	10079.9	10777.6	11559.2	12221.0	12640.3	12640.3	11993.4	13155.3	12092.2
55°	9603.7	9711.5	10289.5	11298.7	12637.3	14311.2	15188.7	15122.8	14125.6	14784.4	14137.6
57.5°	8959.9	9100.6	9801.4	10858.5	13203.2	16266.7	17719.1	17734.1	16455.4	16677.0	16155.9
60°	7187.1	7232.0	8058.5	9472.0	12658.2	17841.9	21174.9	21231.8	19105.6	18363.0	17183.1
62.5°	4968.1	5111.8	5734.7	6974.4	10487.1	17665.2	24507.9	24789.4	21228.8	19252.4	17344.8
65°	3270.1	3357.0	3689.4	4444.0	7300.9	15311.4	25544.0	26412.5	22851.9	19303.3	16668.0
67.5°	2371.7	2386.7	2485.5	2874.8	4387.1	11011.2	23774.2	24999.0	23459.8	18878.0	15080.9
70°	1916.6	1928.5	1964.5	2213.0	2832.9	6890.6	19390.1	21309.7	21636.1	16862.7	12146.1
72.5°	1557.2	1572.2	1617.1	1850.7	2335.8	3833.1	14179.5	16518.3	17599.3	12475.6	8073.5
75°	1224.8	1236.8	1344.6	1575.2	2195.1	2632.3	9406.1	11697.0	11843.7	7291.9	3779.2
77.5°	838.5	859.5	991.2	1335.6	2066.3	2302.9	5863.4	7492.5	6722.9	2853.9	1299.7
80°	533.0	563.0	640.8	1012.2	1826.7	2198.0	3647.4	4473.9	2943.7	976.2	625.9
82.5°	314.4	344.4	422.2	655.8	1434.4	2039.3	2569.4	2800.0	1380.5	500.1	377.3
85°	173.7	194.6	254.5	395.3	841.5	1811.7	2057.3	2009.4	790.6	266.5	236.6
87.5°	56.9	65.9	92.8	158.7	347.4	853.5	1233.8	1158.9	410.3	122.8	92.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8	7318.8
2.5°	7312.8	7303.9	7169.1	7067.3	6893.6	6749.9	6693.0	6615.1	6612.1	6555.2	6540.2
5°	7136.2	7043.3	6836.7	6639.1	6330.6	6124.0	5935.3	5803.6	5749.7	5632.9	5605.9
7.5°	6908.6	6785.8	6468.4	6097.0	5734.7	5411.3	5117.8	4824.3	4659.6	4602.7	4539.8
10°	6672.0	6456.4	5986.2	5570.0	5063.9	4566.8	4105.6	3692.4	3467.8	3309.0	3240.2
12.5°	6483.3	6195.9	5596.9	4974.0	4306.3	3641.4	3105.4	2671.2	2416.7	2296.9	2243.0
15°	6270.7	5890.4	5171.7	4384.1	3551.6	2797.0	2272.9	1931.5	1829.7	1772.8	1763.8
17.5°	6046.1	5605.9	4710.5	3803.2	2814.9	2105.2	1766.8	1629.1	1584.1	1560.2	1548.2
20°	5836.5	5351.4	4237.4	3156.3	2204.0	1689.0	1530.2	1458.4	1455.4	1467.4	1464.4
22.5°	5540.0	5019.0	3770.2	2557.4	1760.8	1470.4	1368.5	1350.6	1368.5	1383.5	1389.5
25°	5372.3	4746.5	3249.2	2030.3	1455.4	1305.7	1272.7	1266.7	1293.7	1311.6	1308.6
27.5°	5198.6	4465.0	2764.0	1626.1	1275.7	1188.9	1182.9	1188.9	1215.8	1242.8	1239.8
30°	5063.9	4240.4	2308.8	1359.6	1138.0	1105.0	1099.0	1105.0	1120.0	1123.0	1123.0
32.5°	4953.1	3973.8	1922.5	1179.9	1054.1	1027.2	1033.1	1030.1	1033.1	1036.1	1039.1
35°	4887.2	3815.1	1605.1	1069.1	985.2	964.3	961.3	952.3	955.3	958.3	955.3
37.5°	5028.0	3737.3	1353.6	991.2	937.3	919.3	913.4	907.4	898.4	898.4	898.4
40°	5240.6	3695.4	1200.8	940.3	901.4	880.4	862.4	856.5	856.5	859.5	862.4
42.5°	5662.8	3764.2	1096.0	901.4	856.5	832.5	814.5	817.5	826.5	835.5	829.5
45°	6273.7	3973.8	1048.1	871.4	829.5	796.6	784.6	781.6	790.6	805.6	817.5
47.5°	7073.3	4300.3	1030.1	844.5	811.5	766.6	751.6	760.6	772.6	793.6	784.6
50°	8381.9	5033.9	1045.1	820.5	784.6	751.6	733.7	724.7	733.7	748.7	754.6
52.5°	10091.8	6366.5	1102.0	808.5	766.6	739.7	709.7	694.7	703.7	715.7	715.7
55°	12137.2	8187.3	1260.7	793.6	736.7	721.7	688.8	658.8	664.8	664.8	661.8
57.5°	13939.9	9561.8	1449.4	772.6	718.7	697.7	655.8	619.9	613.9	616.9	619.9
60°	14748.5	9927.1	1539.2	766.6	718.7	667.8	610.9	575.0	566.0	560.0	560.0
62.5°	14607.7	9295.3	1356.6	739.7	736.7	643.8	569.0	530.0	518.1	506.1	509.1
65°	13757.2	8393.9	1069.1	703.7	739.7	628.9	527.1	488.1	467.2	452.2	449.2
67.5°	12203.0	7166.1	847.5	676.8	709.7	601.9	491.1	446.2	428.2	413.3	407.3
70°	9546.8	5617.9	736.7	640.8	637.9	536.0	449.2	410.3	383.3	365.3	365.3
72.5°	6189.9	3551.6	631.9	569.0	551.0	449.2	389.3	365.3	344.4	329.4	329.4
75°	2803.0	1650.0	509.1	476.1	449.2	359.4	329.4	317.4	299.5	284.5	284.5
77.5°	1006.2	703.7	380.3	374.3	335.4	278.5	266.5	257.5	245.6	230.6	230.6
80°	563.0	446.2	284.5	272.5	233.6	206.6	191.7	191.7	185.7	176.7	173.7
82.5°	356.4	290.5	209.6	182.7	152.7	137.8	131.8	128.8	125.8	113.8	110.8
85°	224.6	197.6	137.8	107.8	89.8	68.9	65.9	62.9	56.9	50.9	50.9
87.5°	101.8	113.8	53.9	32.9	24.0	15.0	9.0	3.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)